

AMENDMENTS TO THE CLAIMS

Please amend the claims so that they read as follows:

Claim 1 (Currently Amended): A Ni based alloy with excellent corrosion resistance relative to supercritical water environments containing inorganic acids comprising:

Cr: from more than 43% to 50% or less, and Mo: 0.1% to 2%[[,]]; and

further comprising, Mg: 0.001% to 0.05%, N: 0.001% to 0.04%, and Mn: 0.05% to 0.5%,
wherein the Mg, N, and Mn are jointly incorporated such that the crystal phase stability of the Ni fcc lattice is improved;

and a remainder as Ni and unavoidable impurities,

wherein a quantity of C amongst said unavoidable impurities is restricted to 0.05% or less.

Claim 2 (Currently Amended): The Ni based alloy of claim 1 further comprising ~~at least one~~
~~of~~ Fe: 0.05% to 1.0% and Si: 0.01% to 0.1%.

Claim 3 (Previously Presented): A member for a supercritical water process reaction apparatus,

wherein said member comprises a Ni based alloy according to claim 1.

Claim 4 (Currently Amended): A Ni based alloy with excellent corrosion resistance relative to supercritical water environments containing inorganic acids comprising:

Cr: from 29% to less than 42%, and Ta: from more than 1% to 3% or less,
further comprising Mg: 0.001% to 0.05%, N: 0.001% to 0.04%, and Mn: 0.05% to 0.5%,
wherein the Mg, N, and Mn are jointly incorporated such that the crystal phase stability of the Ni
fcc lattice is improved;

and a remainder as Ni and unavoidable impurities,

wherein a quantity of C amongst said unavoidable impurities is restricted to 0.05% or less.

Claim 5 (Previously Presented): The Ni based alloy of claim 4 further comprising Mo: 0.1% to 2%.

Claim 6 (Currently Amended): The Ni based alloy of claim 4 further comprising at least one of Fe: 0.05% to 1.0% and Si: 0.01% to 0.1%.

Claim 7 (Currently Amended): The Ni based alloy of claim 4 further comprising Mo: 0.1% to 2%, ~~and at least one of~~ Fe: 0.05% to 1.0% and Si: 0.01% to 0.1%.

Claim 8 (Previously Presented): A member for a supercritical water process reaction apparatus,

wherein said member comprises a Ni based alloy according to claim 4.

Claim 9 (Currently Amended): A Ni based alloy with excellent resistance to stress corrosion cracking in supercritical water environments containing inorganic acids comprising:

Claim 15 (Currently Amended): The Ni based alloy of claim 9, further comprising at least one of Mo: from 0.01% to less than 0.5% and Hf: 0.01% to 0.1%; and ~~at least one of~~ further comprising Fe: 0.1% to 10% and Si: 0.01% to 0.1%.

Claim 16 (Currently Amended): The Ni based alloy of claim 9 further comprising Nb: from more than 1.0% to 6% or less, at least one of Mo: from 0.01% to less than 0.5% and Hf: 0.01% to 0.1%; and ~~at least one of~~ further comprising Fe: 0.1% to 10% and Si: 0.01% to 0.1%.

Claim 17 (Previously Presented): A member for a supercritical water process reaction apparatus,

wherein said member comprises a Ni based alloy according to claim 9.

Claim 18 (Currently Amended): A Ni based alloy with excellent resistance to stress corrosion cracking in supercritical water environments containing inorganic acids comprising:

Cr: from more than 28% to less than 34%, and W: from more than 0.1% to less than 1.0%,
and;

further comprising Mg: 0.001% to 0.05%, N: 0.001% to 0.04%, Mn: 0.05% to 0.5%,
wherein the Mg, N and Mn are jointly incorporated such that the crystal phase stability of the Ni fcc lattice is improved;

and a remainder as Ni and unavoidable impurities,

wherein a quantity of C amongst said unavoidable impurities is restricted to 0.05% or less.

Claim 19 (Previously Presented): The Ni based alloy of claim 18, further comprising Nb: from more than 1.0% to 6% or less.

Claim 20 (Previously Presented): The Ni based alloy of claim 18 further comprising at least one of Mo: from 0.01% to less than 0.5% and Hf: 0.01% to 0.1%.

Claim 21 (Currently Amended): The Ni based alloy of claim 18 further comprising ~~at least one of~~ Fe: 0.1% to 10% and Si: 0.01% to 0.1%.

Claim 22 (Previously Presented): The Ni based alloy of claim 18 further comprising Nb: from more than 1.0% to 6% or less; and at least one of Mo: from 0.01% to less than 0.5% and Hf: 0.01% to 0.1%.

Claim 23 (Currently Amended): The Ni based alloy of claim 18 further comprising Nb: from more than 1.0% to 6% or less, ~~and at least one of~~ Fe: 0.1% to 10% and Si: 0.01% to 0.1%.

Claim 24 (Currently Amended): The Ni based alloy of claim 18 further comprising at least one of Mo: from 0.01% to less than 0.5% and Hf: 0.01% to 0.1%; and further comprising ~~at least one of~~ Fe: 0.1% to 10% and Si: 0.01% to 0.1%.

Claim 25 (Currently Amended): The Ni based alloy of claim 18 further comprising Nb: from more than 1.0% to 6% or less; at least one of Mo: from 0.01% to less than 0.5% and Hf: 0.01% to 0.1%[[,]]; and further comprising at least one of Fe: 0.1% to 10% and Si: 0.01% to 0.1%.

Claim 26 (Previously Presented): A member for a supercritical water process reaction apparatus,

wherein said member comprises a Ni based alloy according to claim 18.